

What is claimed is:

1. An LED device comprising:
  - an LED mounted on a substrate;
  - a transparent resin including phosphor particles for changing a color of light emitted from the LED, and sealing the LED; and
  - a dye dyeing the sealing resin for correcting the color of the light from the LED.
2. The device according to claim 1 wherein the dye has a color for correcting the color of the light from the LED to acquiring a desired color of light.
3. The device according to claim 1 wherein the dye has a complementary color to the color of the light emitted from the LED for a desired color.
- 15 4. The device according to claim 1 wherein at least a surface of the sealing resin is dyed by the dye.
5. A method for manufacturing an LED device comprising the steps of:
  - mounting an LED on a substrate;
  - 20 sealing the LED with a transparent resin including phosphor particles to form an LED device before being dyed;
  - measuring chromaticity of light from the LED device before being dyed;
  - dyeing the sealing resin by a dye having a color for 25 correcting the measured chromaticity to a desired color.
6. The method according to claim 5 wherein dyeing of the transparent resin is controlled by at least one condition selected from the concentration of the dye, the

temperature of a liquid in which a dye is put, and the time in soaking the LED device before being dyed in the liquid containing the dye.

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